

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

As rescanning documents *will not* correct images,  

---

please do not report the images to the  
Image Problem Mailbox.

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) An illumination apparatus comprising:  
a light guiding plate having an upper surface for emitting a light, a first side surface and a second side surface, wherein the upper surface is perpendicular to the first side surface and to the second side surface;  
a point light source facing an intersection of said first side surface and said second side surface; and  
a reflecting member for reflecting a light of said point light source, wherein the reflecting member covers a portion of said first side surface and a portion of said second side surface, and  
wherein said light reflected by said reflecting member is incident on at least said first side surface and said second side surface of said light guiding plate.
2. (Original) An illumination apparatus according to claim 1, wherein an ink dot is provided on an upper surface or a lower surface of said light guiding plate.
3. (Original) An illumination apparatus according to claim 1, wherein a prism having a triangular cross-section is provided on an upper surface or a lower surface of said light guiding plate.
4. (Original) An illumination apparatus according to claim 1, wherein a projection having a rectangular or square cross-section is provided on an upper surface or a lower surface of said light guiding plate.

5. (Original) An illumination apparatus according to claim 1, wherein a reflecting plate is provided below said light guiding plate.

6. (Currently Amended) An illumination apparatus comprising:

a light guiding plate having an upper surface for emitting a light, a first side surface and a second side surface perpendicular to said ~~second~~ first side surface, wherein the upper surface is perpendicular to the first side surface and to the second side surface; and

a point light source facing an intersection of said first side surface and said second side surface,

a reflecting member for reflecting a light of said point light source, wherein the reflecting member covers a portion of said first side surface and a portion of said second side surface, and

wherein a light emitted from said point light source is incident on said first side surface and said second side surface of said light guiding plate and exits through ~~an~~ said upper surface or a lower surface of said light guiding plate.

7. (Original) An illumination apparatus according to claim 6, wherein said point light source is surrounded by a reflecting member, said first side surface, and said second side surface.

8. (Original) An illumination apparatus according to claim 6, wherein an ink dot is provided on an upper surface or a lower surface of said light guiding plate.

9. (Original) An illumination apparatus according to claim 6, wherein a prism having a triangular cross-section is provided on an upper surface or a lower surface of said light guiding plate.

10. (Original) An illumination apparatus according to claim 6, wherein a projection having a rectangular or square cross-section is provided on an upper surface or a lower surface of said light guiding plate.

11. (Original) An illumination apparatus according to claim 6, wherein a reflecting plate is provided below said light guiding plate.

12. (Currently Amended) An illumination apparatus comprising:

a light guiding plate having a first side surface, a second side surface, and ~~a third side surface, wherein said first side surface is not perpendicular to said second side surface and said third side surface~~ an inclined surface between said first side surface and said second side surface; and

a point light source ~~adjacent to~~ facing said ~~first side~~ inclined surface,

wherein a light emitted from said point light source is incident on said ~~first side~~ inclined surface of said light guiding plate and exits through an upper surface or a lower surface of said light guiding plate.

13. (Currently Amended) An illumination apparatus according to claim 12, wherein said point light source is surrounded with a first reflecting plate and said ~~first side~~ inclined surface.

14. (Currently Amended) An illumination apparatus according to claim 12, wherein a reflecting plate is provided so as to surround side surfaces and a said lower surface of said light guiding plate.

15. (Currently Amended) An illumination apparatus according to claim 12, wherein an ink dot is provided on a said lower surface of said light guiding plate.

16. (Currently Amended) An illumination apparatus according to claim 12, wherein a projection having a rectangular cross-section is provided on a said lower surface of said light guiding plate.

17. (Previously Presented) An illumination apparatus comprising:

a first light guiding plate having a first side surface and a second side surface perpendicular to said first side surface;

a second light guiding plate having a first side surface, an upper surface, and a lower surface, said upper surface and said lower surface being perpendicular to said first surface, wherein said second light guiding plate is not in contact with said first light guiding plate; and

a point light source,

wherein a light emitted from said point light source is incident on a first side surface of said first light guiding plate and exit through a second side surface of said first light guiding plate, and

wherein said light exiting through said second side surface of said first light guiding plate is incident on said first side surface of said second light guiding plate, and exit through said upper surface or said lower surface of said second light guiding plate.

18. (Original) An illumination apparatus according to claim 17, wherein said first light guiding plate has a shape of a rectangular prism.

19. (Original) An illumination apparatus according to claim 17, wherein ink dots are provided on a side surface opposite to said first side surface of said first light guiding plate.

20. (Currently Amended) An illumination apparatus according to claim [[17]] 19, wherein said ink dots are provided at a lower density as at a region closer to ~~towards~~ said point light source than at a region further from said point light source.

21. (Original) An illumination apparatus comprising:

a first light guiding plate having a first side surface and a second side surface perpendicular to said first side surface;

a second light guiding plate having a first side surface, an upper surface, and a lower surface, said upper surface and said lower surface being perpendicular to said first side surface, wherein said first light guiding plate has a larger refractive index than said second light guiding plate; and

a point light source,

wherein a light emitted from said point light source is incident on a first side surface of said first light guiding plate and exits through said second side surface of said first light guiding plate, and

wherein said light exiting through said second side surface is incident on a first side surface of said second light guiding plate which is in contact with said second side surface of said first light guiding plate and exits through said upper surface or said lower surface of said second light guiding plate.

22. (Original) An illumination apparatus according to claim 21, wherein said refractive index of said first light guiding plate is between 1.8 and 3.0, and said refractive index of said second light guiding plate is between 1.4 and 1.6.

23. (Previously Presented) A liquid crystal display device comprising:  
a liquid crystal panel comprising a first substrate, a second substrate, and a liquid crystal interposed therebetween; and

a illumination apparatus adjacent to said liquid crystal panel for illuminating an image display plane of said liquid crystal panel, said illumination apparatus comprising:

a first light guiding plate having a first side surface and a second side surface perpendicular to said first side surface;

a second light guiding plate having a first side surface, an upper surface, and a lower surface, said upper surface and said lower surface being perpendicular to said first surface, wherein said second light guiding plate is not in contact with said first light guiding plate; and

a point light source,

wherein a light emitted from said point light source is incident on a first surface of said first light guiding plate and exit through a second side surface of said first light guiding plate, and

wherein said light exiting through said second side surface of said first light guiding plate is incident on said first side surface of said second light guiding plate, and exit through said upper surface or said lower surface of said second light guiding plate.

24. (Original) A liquid crystal display device according to claim 23, wherein said first light guiding plate has a shape of a rectangular prism.

25. (Original) A liquid crystal display device according to claim 23, wherein ink dots are provided on a side surface opposite to said first side surface of said first light guiding plate.

26. (Currently Amended) A liquid crystal display device according to claim ~~[[23]]~~ 25, wherein said ink dots are provided at a lower density as closer towards said point light source.

27. (Original) A liquid crystal display device according to claim 23, wherein said liquid crystal display device is a transmission type liquid crystal display device.

28. (Previously Presented) A liquid crystal display device according to claim 23, wherein said liquid crystal display device is incorporated in at least one selected from the group consisting of a personal computer, a digital camera, a mobile telephone, a video camera, a mobile computer, a head mount display, a television, an electronic book, a player which use a recording medium, and a car navigation system.

29. (Original) A liquid crystal display device comprising:

a liquid crystal panel comprising a first substrate, a second substrate, and a liquid crystal interposed therebetween; and

a illumination apparatus adjacent to said liquid crystal panel for illuminating an image display plane of said liquid crystal panel, said illumination apparatus comprising:

a first light guiding plate having a first side surface and a second side surface perpendicular to said first side surface;

a second light guiding plate having a first side surface, an upper surface, and a lower surface, said upper surface and said lower surface being perpendicular to said first side surface, wherein said first light guiding plate has a larger refractive index than said second light guiding plate; and

a point light source,

wherein a light emitted from said point light source is incident on a first side surface of said first light guiding plate and exits through said second side surface of said first light guiding plate, and

wherein said light exiting through said second side surface is incident on a first side surface of said second light guiding plate which is in contact with said second side surface of said first light guiding plate and exits through said upper surface or said lower surface of said second light guiding plate.

30. (Original) An illumination apparatus according to claim 29, wherein said refractive index of said first light guiding plate is between 1.8 and 3.0, and said refractive index of said second light guiding plate is between 1.4 and 1.6.

31. (Original) A liquid crystal display device according to claim 29, wherein said liquid crystal display device is a transmission type liquid crystal display device.

32. (Previously Presented) A liquid crystal display device according to claim 29, wherein said liquid crystal display device is incorporated in at least one selected from the group consisting of a personal computer, a digital camera, a mobile telephone, a video camera, a



Applicant : Hajime Kimura, et al.

Attorney's Docket No.: 07977-273001 / US4846

Serial No. : 09/833,397

Filed : April 11, 2001

Page : 9 of 13

mobile computer, a head mount display, a television, an electronic book, a player which use a recording medium, and a car navigation system.